AUTHOR INDEX TO VOLUME 70

Abe, H., see N. Sato 70 (1987) 372
Abe, H., see Y.S. Kwon 70 (1987) 397
Abe, S., see K. Kamigaki 70 (1987) 218
Abe, S., see H. Yoshida 70 (1987) 275
Abe, S., see T. Kaneko 70 (1987) 277
Abe, S., T. Kaneko, H. Yamauchi, H. Yoshida, H. Nakazawa and K. Kamigaki, Magnetic properties of $TbCu_4Pd$ and $TbCu_4Pt$ 70 (1987) 289
Acet, M., W. Stamm, E.F. Wassermann and H. Zähres, Magnetovolume effects in $Fe_{80-x}Ni_xCr_{20}$ alloys (Abstract) 70 (1987) 427
Acet, M., see E.F. Wassermann 70 (1987) 434
Adachi, K., see N. Sato 70 (1987) 372
Adachi, K., see M. Kontani 70 (1987) 378
Aikawa, M., see S. Yuri 70 (1987) 215
Andoh, Y., T. Hashimoto, H. Fujii, T. Okamoto and H. Fujiwara, Magnetic moments and ^{57}Fe hyperfine field interactions in $Y(Fe_{1-x}Ru_x)_2$ ternaries 70 (1987) 168
Ansaldo, E.J., see G.M. Kalvius 70 (1987) 285
Anzai, S., see A. Fujimori 70 (1987) 67
Anzai, S., see M. Matoba 70 (1987) 213
Anzai, S., see S. Yuri 70 (1987) 215
Asano, S. and S. Ishida, Electronic structures of Laves phase compounds (Invited paper) 70 (1987) 39
Asano, S. and S. Ishida, Hyperfine fields of Laves phase compounds 70 (1987) 187
Asayama, K., see Y. Yamada 70 (1987) 175
Asch, L., see G.M. Kalvius 70 (1987) 285

Ballou, R., J. Deportes, R. Lemaire, Y. Nakamura and B. Ouladdiaf, Helimagnetism in the cubic Laves phase YMn_2 70 (1987) 129
Ballou, R., D. Gignoux, R. Lemaire and J. Schweizer, Co quasi-unidimensional staking versus magnetism in the $RCo_{1-\epsilon}$ intermetallics (R = La, Pr, Nd) (Abstract) 70 (1987) 288
Ballou, R., J. Deportes and J. Lemaire, Anisotropic rare earth–cobalt exchange interactions in RCo_5 intermetallics 70 (1987) 306
Bärner, K., Correlation of magnetic and transport properties for some mixed magnetic transition metal pnictides 70 (1987) 268
Bauer, E., see E. Gratz 70 (1987) 118
Bauer, E., see E. Gratz 70 (1987) 159
Bauer, H.-J., see U. Gonser 70 (1987) 419
Bevolo, A.J., see K. Yagasaki 70 (1987) 405
Bianconi, A., see A. Kotani 70 (1987) 28
Borchers, J., see J.J. Rhyne 70 (1987) 117
Boucher, B., see G.M. Kalvius 70 (1987) 285
Brand, R.A., see P. Steinbach 70 (1987) 102
Brewer, J.H., see G.M. Kalvius 70 (1987) 285
Brown, S.E., see J.L. Smith 70 (1987) 347
Burgdorf, V., see B. Huck 70 (1987) 423
Burzo, E., N. Plugaru and V. Pop, Magnetic properties of $R_2(Fe, Co, Al)_{14}B$ compounds where R = Pr and Nd 70 (1987) 343
Burzo, E. and M. Ursu, Magnetic properties of $(Gd_xY_{1-x})Co_4B$ compounds 70 (1987) 345

Carbone, C., see E. Kisker 70 (1987) 21
Carbone, C., E. Kisker, K.-H. Walker and E.F. Wassermann, Spin- and angle-dependent photoemission from Fe_3Pt Invar (Abstract) 70 (1987) 435
Chamberod, A., see S. Komura 70 (1987) 428
Chappert, J., see G.M. Kalvius 70 (1987) 285
Charpin, P., see P. Radhakrishna 70 (1987) 229
Chikazumi, S., see M. Sagawa 70 (1987) 316
Chikazumi, S., see H. Miyajima 70 (1987) 325
Chui, F.L., see M. Kohgi 70 (1987) 393
Cooper, B.R., see J.L. Smith 70 (1987) 347
Cowley, E.R., see S. Tomiyoshi 70 (1987) 236

Da Cunha, S.F., see C.M. da Silva 70 (1987) 55
Da Silva, C.M., F.P. Livi, E. Panarotto and A.A. Gomes, Magnetic properties of $Zr(FeAl)_2$ pseudobinaries: A CPA study 70 (1987) 52
Da Silva, C.M., F.P. Livi, E. Panarotto, S.F. da Cunha and A.A. Gomes, Magnetic properties and a combined recursive-CPA calculation of pseudobinary intermetallics: Application to $Hf(FeAl)_2$ 70 (1987) 55
De Visser, A., see J.J.M. Franse 70 (1987) 351
Deguchi, H., see K. Takeda 70 (1987) 297
Dehe, G., see Z.M. Stadnik 70 (1987) 436
Dehe, G., see Z.M. Stadnik 70 (1987) 439
DeLong, L.E., see K. Yagasaki 70 (1987) 405
Deportes, J., B. Ouladdiaf and K.R.A. Ziebeck, Spin fluctuations in the paramagnetic state of YMn_2 70 (1987) 14
Deportes, J., see R. Ballou 70 (1987) 129
Deportes, J., R. Lemaire, B. Ouladdiaf, E. Roudaut and F. Sayetat, Antiferromagnetism of the hexagonal Laves phase $ThMn_2$ 70 (1987) 191
Deportes, J., see R. Ballou 70 (1987) 306

Doniach, S., see P. Radhakrishna 70 (1987) 229
Du, R., see J.J. Rhyne 70 (1987) 117

Endo, K., K. Ishiyama and A. Shinogi, Itinerant electron ferromagnetism in the Laves phase compounds $Sc(Co_{1-x}Al_x)_2$ and $Lu(Co_{1-y}Al_y)_2$ 70 (1987) 157
Endo, S., see H. Nagata 70 (1987) 334
Endoh, Y., see A. Isobe 70 (1987) 391
Endoh, Y., see T. Takeda 70 (1987) 431
Erwin, R.W., see J.J. Rhyne 70 (1987) 117

Feil, H., see M.J. Otto 70 (1987) 33
Figiel, H., see Z. Kąkol 70 (1987) 309
Fisk, Z., see J.L. Smith 70 (1987) 347
Flipse, C.F., see E. Kisker 70 (1987) 21
Flynn, C.P., see J.J. Rhyne 70 (1987) 117
Franse, J.J.M., see K.J. Radwanski 70 (1987) 313
Franse, J.J.M., A.A. Menovsky, A. de Visser, P.H. Frings and C. Vettier, Electronic and magnetic properties of uranium–platinum intermetallic compounds (Invited paper) 70 (1987) 351
Franse, J.J.M., see K. Kadowaki 70 (1987) 403
Fredo, S., see G.M. Kalvius 70 (1987) 359
Frings, P.H., see J.J.M. Franse 70 (1987) 351
Fujii, A., see Y. Isikawa 70 (1987) 385
Fujii, H., see T. Okamoto 70 (1987) 139
Fujii, H., see Y. Andoh 70 (1987) 168
Fujii, H., see P. Radhakrishna 70 (1987) 229
Fujii, H., see T. Shigeoka 70 (1987) 239
Fujii, H., see K. Hiraoka 70 (1987) 255
Fujii, H., see Y. Hashimoto 70 (1987) 291
Fujii, H., H. Nagata, Y. Uwatoko, T. Okamoto, H. Yamamoto and M. Sagawa, Heat capacity and thermal expansion of $R_2Fe_{14}B$ compounds (R = Y, Nd and Tm) 70 (1987) 331
Fujimori, A., M. Matoba, S. Anzai, K. Terakura, M. Taniguchi, S. Ogawa and S. Suga, Localized versus itinerant character of d electrons in NiS: Photoemission spectroscopic study 70 (1987) 67
Fujita, M. and K. Machida, Spin density waves in Cr and Cr-rich Cr–Mn and Cr–V alloys 70 (1987) 442
Fujiwara, H., see Y. Andoh 70 (1987) 168
Fujiwara, H., W.-L. Liu, H. Kadomatsu and T. Tokunaga, Spin reorientation in the ternary compound $GdFe_4Al_8$ single crystal 70 (1987) 301
Fujiwara, H., M. Kurisu and H. Kadomatsu, Hydrostatic pressure study on magnetic and structural phase properties of CeAg up to 37 kbar 70 (1987) 369
Fujiwara, K., see K. Ichinose 70 (1987) 154
Fujiwara, K., K. Ichinose, H. Nagai and A. Tsujimura, ^1H NMR study of YT_2-hydride (T = Fe, Mn) 70 (1987) 184
Fujiwara, K., see M. Oyasato 70 (1987) 233
Fukami, E., see H. Wada 70 (1987) 17
Fukamichi, K., see T. Sakakibara 70 (1987) 126
Furusawa, A., see T. Shinohara 70 (1987) 282

Gal, J., see G.M. Kalvius 70 (1987) 359
Gavigan, J.P., D. Givord, H.S. Li, O. Yamada, H. Maruyama, M. Sagawa and S. Hirosawa, High field magnetization measurements on $Tb_2Fe_{14}B$ and $Er_2Fe_{14}B$ single crystals 70 (1987) 416
Gignoux, D., Magnetic instabilities in the rare earth–3d compounds (Invited paper) 70 (1987) 81
Gignoux, D., see R. Ballou 70 (1987) 288
Gignoux, D., see J. Sakurai 70 (1987) 383
Gignoux, D., C. Vettier and J. Voiron, First order magnetic transition induced by pressure in CeNi 70 (1987) 388
Giorgi, A.L., see J.L. Smith 70 (1987) 347
Givord, D., see J.P. Gavigan 70 (1987) 416
Goldman, A.I., see Y. Yamaguchi 70 (1987) 197
Gomes, A.A., see C.M. da Silva 70 (1987) 52
Gomes, A.A., see C.M. da Silva 70 (1987) 55
Gonser, U., H.-J. Bauer and H.-G. Wagner, Amorphous and microcrystalline structures obtained from fast quenching of FeNiB melts 70 (1987) 419
Goto, T., see T. Sakakibara 70 (1987) 126
Goto, T., see K. Yoshimura 70 (1987) 147
Goto, T., see T. Sakakibara 70 (1987) 375
Goto, T., see T. Sato 70 (1987) 411
Gratz, E., E. Bauer and H. Nowotny, Transport properties in rare earth intermetallics (Invited paper) 70 (1987) 118
Gratz, E., N. Pillmayr, E. Bauer and G. Hilscher, Temperature and concentration dependence of the electrical resistivity in (RE, Y)Co_2 (RE = Rare earth element) 70 (1987) 159
Gratz, E., see N. Pillmayr 70 (1987) 162
Griesbach, P., see Z.M. Stadnik 70 (1987) 436
Griesbach, P., see Z.M. Stadnik 70 (1987) 439
Gschneidner, Jr., K.A., see K. Yagasaki 70 (1987) 405
Gütlich, P., see Z.M. Stadnik 70 (1987) 436
Gütlich, P., see Z.M. Stadnik 70 (1987) 439

Haas, C., see M.J. Otto 70 (1987) 33
Hartmann, O., see G.M. Kalvius 70 (1987) 285
Hashimoto, T., see Y. Andoh 70 (1987) 168
Hashimoto, Y., see T. Shigeoka 70 (1987) 239
Hashimoto, Y., see N. Iwata 70 (1987) 279
Hashimoto, Y., H. Fujii, T. Okamoto and Y. Makihara, Magnetic characteristic of a single crystal $TbNi_3$ compound 70 (1987) 291
Hatakeyama, K., see S. Yuri 70 (1987) 215
Hayashibe, S., see T. Shinohara 70 (1987) 282
Hennion, B., see M. Kohgi 70 (1987) 393
Hesse, J., see B. Huck 70 (1987) 423
Hesse, J., see B. Huck 70 (1987) 425

Hihara, T., see K. Hiraoka 70 (1987) 255
Hihara, T., see Y. Kasamatsu 70 (1987) 294
Hihara, T., see N. Okamoto 70 (1987) 299
Hilscher, G., see E. Gratz 70 (1987) 159
Hilscher, G., see N. Pillmayr 70 (1987) 162
Hippert, F., see M. Kohgi 70 (1987) 393
Hirai, K., Modulated spin structures due to the four-spin exchange interaction in some intermetallic compounds 70 (1987) 112
Hiraoka, K., T. Hihara, T. Shigeoka, H. Fujii and T. Okamoto, ^{55}Mn nuclear magnetic resonance studies in RMn_2Ge_2 (R = Rare earths) 70 (1987) 255
Hirosawa, H., see H. Yamauchi 70 (1987) 340
Hirosawa, S., see M. Sagawa 70 (1987) 316
Hirosawa, S., see O. Yamada 70 (1987) 322
Hirosawa, S., see H. Nagata 70 (1987) 334
Hirosawa, S., see H. Hiroyoshi 70 (1987) 337
Hirosawa, S., see J.P. Gavigan 70 (1987) 416
Hiroyoshi, H., see M. Yamada 70 (1987) 328
Hiroyoshi, H., M. Yamada, N. Saito, H. Kato, Y. Nakagawa, S. Hirosawa and M. Sagawa, High-field magnetization and crystalline field of $R_2Fe_{14}B$ and $R_2Co_{14}B$ 70 (1987) 337
Ho, W.W., Magnetic properties and spin reorientation of iron rare earth based intermetallics (Invited paper) 70 (1987) 107
Ho, W.W., see S. Luo 70 (1987) 311
Honda, S., see K. Tamari 70 (1987) 258
Hori, T., see H. Shiraishi 70 (1987) 230
Hori, T., see Y. Nakagawa 70 (1987) 413
Huck, B., V. Burgdorf and J. Hesse, ^{57}Fe Mössbauer effect investigation on a $(Fe_{0.65}Ni_{0.35})_{1-x}Cu_x$ alloys system 70 (1987) 423
Huck, B. and J. Hesse, Search for reentrant spin glass phenomenon in the 'classic' FeNi-Invar 70 (1987) 425

Ichinose, K., K. Fujiwara, M. Nakamura, M. Oyasato and A. Tsujimura, NMR study of Laves phase $(Mg_{1-x}R_x)Co_2$ compounds 70 (1987) 154
Ichinose, K., see K. Fujiwara 70 (1987) 184
Ichinose, K., see M. Oyasato 70 (1987) 233
Ido, H., Temperature-dependent magnetic moment in the MnAs–CrAs system 70 (1987) 205
Ido, H., see G. Kido 70 (1987) 207
Ido, H., see M. Kawakami 70 (1987) 265
Ikezawa, M., see Y.S. Kwon 70 (1987) 397
Inaba, N., see H. Miyajima 70 (1987) 325
Inoue, J. and M. Shimizu, Electronic density of states in pseudobinary compounds $Y(Fe–Co)_2$ and $Y(Mn–Co)_2$ 70 (1987) 49
Inoue, J., see M. Shimizu 70 (1987) 61
Inoue, M. and H. Negishi, Itinerant magnetic character in 3d transition-metal intercalation compounds M_xTiS_2 70 (1987) 199
Inoue, M., see H. Negishi 70 (1987) 203
Inoue, T., see M. Motokawa 70 (1987) 245
Ishibashi, A., see H. Nagata 70 (1987) 334
Ishida, S., see S. Asano 70 (1987) 39
Ishida, S., see S. Asano 70 (1987) 187
Ishimoto, K., see Y. Yamaguchi 70 (1987) 197
Ishiyama, K., see K. Endo 70 (1987) 157
Isikawa, Y., K. Mori, T. Mizushima, A. Fujii, H. Takeda and K. Sato, Correlation between the specific heat and high field magnetism of $La_{1-x}Ce_xNi$ at low temperatures 70 (1987) 385
Isobe, A., A. Ochiai, S. Onodera, K. Yamada, M. Kohgi, Y. Endoh, T. Suzuki and T. Kasuya, Magnetic and transport properties of Ce_2Sb and Ce_2Bi 70 (1987) 391
Itoh, S., see T. Takeda 70 (1987) 431
Iwata, N., see T. Shigeoka 70 (1987) 239
Iwata, N., T. Kimura, T. Shigeoka and Y. Hashimoto, Sublattice magnetization and magnetization process in $TbCu_2$ 70 (1987) 279
Iwata, T., see T. Kamimura 70 (1987) 209

Jiang, W., see S. Luo 70 (1987) 311
Jo, T., see A. Kotani 70 (1987) 28
Jo, T., Lattice distortion and multiple spin density wave state in CsCl type AuMn 70 (1987) 115
Jo, T. and A. Kotani, Multiplet structure of core photoabsorption spectra in mixed valent Ce compounds 70 (1987) 394

Kaburagi, M. and T. Tonegawa, Magnetic phase diagram of ordered $Fe(Pd_xPt_{1-x})_3$ alloys 70 (1987) 408
Kadomatsu, H., see H. Fujiwara 70 (1987) 301
Kadomatsu, H., see H. Fujiwara 70 (1987) 369
Kadowaki, K., J.J.M. Franse and S.B. Woods, Electrical resistivity of the heavy-fermion compounds (U, Th)Pt_3 70 (1987) 403
Kąkol, Z. and H. Figiel, The magnetocrystalline anisotropy in $(Y_{1-x}Gd_x)_2Co_{17}$ pseudobinaries 70 (1987) 309
Kalvius, G.M., L. Asch, D.R. Noakes, R. Keitel, J.H. Brewer, E.J. Ansaldo, F.J. Litterst, B. Boucher, J. Chappert, A. Yaouanc, T. Yamazaki, K. Nagamine, K. Nishiyama, O. Hartmann and R. Wäppling, Magnetic properties of crystalline and amorphous DyAg from μSR measurements 70 (1987) 285
Kalvius, G.M., J. Gal, F.J. Litterst, W. Potzel, J. Moser, U. Potzel, W. Schiessl, S. Fredo, S. Tapuchi and J.C. Spirlet, Mössbauer studies of neptunium intermetallics with heavy electron properties (Invited paper) 70 (1987) 359
Kamigaki, K., M. Shono, H. Yoshida, S. Abe and T. Kaneko, Magnetic properties of pseudobinary compounds $CrSb_{1-x}As_x$ 70 (1987) 218
Kamigaki, K., see H. Yoshida 70 (1987) 275

Kamigaki, K., see S. Abe 70 (1987) 289
Kamimura, H., J. Sakurai, Y. Komura, H. Nakamura, M. Shiga and Y. Nakamura, Thermoelectric power of $Y(Mn_{1-x}Al_x)_2$ 70 (1987) 145
Kamimura, H., see J. Sakurai 70 (1987) 383
Kamimura, T., M. Sato and T. Iwata, Spin-freezing processes around the tricritical point in $Mn_{1-x}Ti_xSb$ 70 (1987) 209
Kanazawa, M., see T. Shinohara 70 (1987) 282
Kaneko, T., see K. Kamigaki 70 (1987) 218
Kaneko, T., see M. Yuzuri 70 (1987) 223
Kaneko, T., see M. Ohashi 70 (1987) 227
Kaneko, T., see S. Tomiyoshi 70 (1987) 247
Kaneko, T., T. Kanomata, S. Miura, G. Kido and Y. Nakagawa, Field-induced transitions in intermetallic compounds Mn_3Ga and Mn_3ZnC 70 (1987) 261
Kaneko, T., see T. Kanomata 70 (1987) 263
Kaneko, T., see H. Yoshida 70 (1987) 275
Kaneko, T., H. Yoshida, M. Ohashi and S. Abe, Magnetic structure of the intermetallic compound DyAg 70 (1987) 277
Kaneko, T., see S. Abe 70 (1987) 289
Kaneko, T., see K. Shirakawa 70 (1987) 421
Kanematsu, K. and K.I. Kobayashi, Magnetic properties of $PuNi_3$ type intermetallic compounds $Y_xZr_{1-x}Co_{2.9}$ and their hydrides 70 (1987) 271
Kanomata, T., see M. Yuzuri 70 (1987) 223
Kanomata, T., see M. Ohashi 70 (1987) 227
Kanomata, T., see T. Kaneko 70 (1987) 261
Kanomata, T., H. Yasui, H. Yoshida and T. Kaneko, The pressure effect on transition temperature of $Mn_3Ga_{1-x}M_xC$ (M = Al, In) 70 (1987) 263
Kanomata, T., see K. Shirakawa 70 (1987) 421
Kasamatsu, Y., see M. Kawakami 70 (1987) 265
Kasamatsu, Y., T. Tohyama, K. Kojima and T. Hihara, Pressure dependences of hyperfine fields in ferromagnetic compounds GdX (X = Zn, Cd and Hg) 70 (1987) 294
Kasuya, T., see A. Isobe 70 (1987) 391
Kasuya, T., see Y.S. Kwon 70 (1987) 397
Kato, H., see M. Yamada 70 (1987) 328
Kato, H., see H. Hiroyoshi 70 (1987) 337
Katoh, K. and K. Motizuki, Theoretical study of spin waves in the itinerant ferromagnetic state of MnAs 70 (1987) 211
Kawakami, M., Y. Kasamatsu and H. Ido, Temperature and pressure dependence of NMR frequencies in ferromagnetic Heusler alloys containing cobalt and manganese 70 (1987) 265
Kawarazaki, S., see M. Motokawa 70 (1987) 245
Keitel, R., see G.M. Kalvius 70 (1987) 285
Keune, W., see P. Steinbach 70 (1987) 102
Kido, G., see Y. Nishihara 70 (1987) 173
Kido, G., Y. Nakagawa, Y. Nishihara and Y. Yamaguchi, Ferromagnetic to ferromagnetic phase transition in $Sc_{0.25}Ti_{0.75}Fe_2$ under pulsed high magnetic field 70 (1987) 181
Kido, G. and H. Ido, Forced magnetostrictions on $MnAs_{1-x}P_x$ ($x < 0.275$) under pulsed magnetic field up to 300 kOe 70 (1987) 207
Kido, G., see T. Kaneko 70 (1987) 261
Kimura, I., Magnetic structure and exchange interaction in $DyCu_2$ 70 (1987) 273
Kimura, T., see N. Iwata 70 (1987) 279
Kisker, E., C. Carbone, C.F. Flipse and E.F. Wassermann, Photoemission of intermetallics (Invited paper) 70 (1987) 21
Kisker, E., see C. Carbone 70 (1987) 435
Kitaoka, Y., see Y. Yamada 70 (1987) 175
Kitazawa, H., see Y.S. Kwon 70 (1987) 397
Kobayashi, K.I., see K. Kanematsu 70 (1987) 271
Kohara, T., see K. Takeda 70 (1987) 297
Kohara, T., see Z.M. Stadnik 70 (1987) 439
Kohgi, M., see A. Isobe 70 (1987) 391
Kohgi, M., F. Hippert, L.P. Regnault, J. Rossat-Mignod, B. Hennion, T. Satoh, F.L. Chui, T. Miura and F. Takei, Magnetic excitations of a ferromagnetic dense Kondo system $CeSi_{1.8}$ (Abstract) 70 (1987) 393
Kojima, K., see Y. Kasamatsu 70 (1987) 294
Kolodziejczyk, A., Spin fluctuations in the magnetic superconductor Y_9Co_7 70 (1987) 8
Komatsubara, T., see T. Sakakibara 70 (1987) 375
Komura, S., T. Takeda, B. Sarkissian and A. Chamberod, Spin fluctuation in an $Fe_{65}Ni_{35}$ Invar alloy 70 (1987) 428
Komura, S., see T. Takeda 70 (1987) 431
Komura, Y., see H. Kamimura 70 (1987) 145
Komura, Y., see J. Sakurai 70 (1987) 383
Kontani, M., see N. Sato 70 (1987) 372
Kontani, M., M. Senda, M. Nakano, J. Lawrence and K. Adachi, Magnetic properties of Ce_5Si_3 70 (1987) 378
Kotani, A., T. Jo, K. Okada, T. Nakano, M. Okada, A. Bianconi, A. Marcelli and J.C. Parlebas, High energy spectroscopy in Ce and La compounds (Invited paper) 70 (1987) 28
Kotani, A., see T. Jo 70 (1987) 394
Koyano, M., see H. Negishi 70 (1987) 203
Kurisu, M., see H. Fujiwara 70 (1987) 369
Kusuda, T., see K. Tamari 70 (1987) 258
Kwon, Y.S., A. Ochiai, H. Kitazawa, N. Sato, H. Abe, T. Nanba, M. Ikezawa, K. Takegahara, O. Sakai, T. Suzuki and T. Kasuya, Kondo states of Yb_4Sb_3 and Yb_4As_3 70 (1987) 397

Lawrence, J., see M. Kontani 70 (1987) 378
Lebech, B., Z. Smetana and V. Šíma, Magnetic structures and related properties of some rare-earth intermetallic compounds, RCu_2 (Invited paper) 70 (1987) 97

Lemaire, R., see R. Ballou 70 (1987) 129
Lemaire, R., see J. Deportes 70 (1987) 191
Lemaire, R., see R. Ballou 70 (1987) 288
Lemaire, R., see R. Ballou 70 (1987) 306
Lemaire, R., see J. Sakurai 70 (1987) 383
Li, H.S., see J.P. Gavigan 70 (1987) 416
Litterst, F.J., see G.M. Kalvius 70 (1987) 285
Litterst, F.J., see G.M. Kalvius 70 (1987) 359
Liu, W.-L., see H. Fujiwara 70 (1987) 301
Liu, Z.H., see S. Luo 70 (1987) 311
Livi, F.P., see C.M. da Silva 70 (1987) 52
Livi, F.P., see C.M. da Silva 70 (1987) 55
Lonzarich, G.G., Spin fluctuations in intermetallics (Abstract) 70 (1987) 20
Lonzarich, G.G., Quasiparticles and magnetic fluctuations in metals with large magnetic susceptibilities (Invited paper) 70 (1987) 445
Luo, S., G. Zhang, Z.H. Liu, Z. Pei, W. Jiang and W.W. Ho, Crystal structure and magnetic properties of $Sm_3Fe_{29}C_x$ intermetallic compounds 70 (1987) 311

Machida, K., see M. Fujita 70 (1987) 442
Makihara, Y., see T. Okamoto 70 (1987) 139
Makihara, Y., see Y. Hashimoto 70 (1987) 291
Maniawski, F., see Z.M. Stadnik 70 (1987) 436
Marabelli, F. and P. Wachter, Electronic structure and magnetic properties of heavy fermions (Invited paper) 70 (1987) 364
Marcelli, A., see A. Kotani 70 (1987) 28
Maruyama, H., see J.P. Gavigan 70 (1987) 416
Matoba, M., see A. Fujimori 70 (1987) 67
Matoba, M. and S. Anzai, The T^2-contribution to the electrical resistivity at low temperatures in NiAs-type $Ni_{1-x}S_{1-y}Se_y$ 70 (1987) 213
Matsui, H., S. Suzuki and M. Tamaki, Effect of neutron irradiation on magnetic properties of β-U_2N_3 70 (1987) 400
Mekata, M., see K. Yoshimura 70 (1987) 11
Mekata, M., see K. Yoshimura 70 (1987) 147
Menovsky, A.A., see J.J.M. Franse 70 (1987) 351
Miura, S., see T. Kaneko 70 (1987) 261
Miura, T., see M. Kohgi 70 (1987) 393
Miyadai, T., see Y. Tazuke 70 (1987) 194
Miyadai, T., S. Ohtani and Y. Tazuke, Magnetic properties of the pyrite type $Fe_xCo_{1-x-y}Ni_yS_2$ system 70 (1987) 201
Miyajima, H., see M. Sagawa 70 (1987) 316
Miyajima, H., N. Inaba, Y. Otani and S. Chikazumi, Determination of the magnetization vector in the intermetallic compound $Nd_2Fe_{14}B$ single crystal 70 (1987) 325
Miyazaki, T., see T. Takeda 70 (1987) 431
Mizushima, T., see Y. Isikawa 70 (1987) 385
Mori, K., see Y. Isikawa 70 (1987) 385
Mori, N., see H. Takahashi 70 (1987) 149
Mori, N., see H. Takahashi 70 (1987) 189
Morifuji, M. and K. Motizuki, Electronic band structures of FeAs, CoAs and NiAs 70 (1987) 70
Moser, J., see G.M. Kalvius 70 (1987) 359
Motizuki, K., Recent advances in the theory of magnetism of NiAs-type transition-metal chalcogenides and pnictides (Invited paper) 70 (1987) 1
Motizuki, K., see N. Suzuki 70 (1987) 64
Motizuki, K., see M. Morifuji 70 (1987) 70
Motizuki, K., see K. Katoh 70 (1987) 211
Motokawa, M., S. Kawarazaki, H. Nojiri and T. Inoue, Magnetization measurements of $Fe_{1-x}Co_xSi$ 70 (1987) 245

Nagai, H., N. Oyama, H. Yoshie and A. Tsujimura, The anomalous behaviour of Gd atoms in $Gd(Fe_{1-x}Mn_x)_2$ compounds 70 (1987) 171
Nagai, H., see K. Fujiwara 70 (1987) 184
Nagai, H., see N. Okamoto 70 (1987) 299
Nagai, H., see H. Yoshie 70 (1987) 303
Nagamine, K., see G.M. Kalvius 70 (1987) 285
Nagata, H., see T. Okamoto 70 (1987) 139
Nagata, H., see H. Fujii 70 (1987) 331
Nagata, H., S. Hirosawa, M. Sagawa, A. Ishibashi and S. Endo, Pressure dependence of the Curie temperature of intermetallic compounds $R_2Fe_{14}B$ (R = Y, Ce and Nd) 70 (1987) 334
Nakagawa, Y., see G. Kido 70 (1987) 181
Nakagawa, Y., see T. Kaneko 70 (1987) 261
Nakagawa, Y., see M. Yamada 70 (1987) 328
Nakagawa, Y., see H. Hiroyoshi 70 (1987) 337
Nakagawa, Y., Y. Yamaguchi and T. Hori, Coexistence of ferro- and antiferromagnetism in β_1-MnZn alloys 70 (1987) 413
Nakamura, H., see H. Wada 70 (1987) 17
Nakamura, H., see H. Wada 70 (1987) 134
Nakamura, H., see K. Yoshimura 70 (1987) 142
Nakamura, H., see H. Kamimura 70 (1987) 145
Nakamura, M., see K. Ichinose 70 (1987) 154
Nakamura, Y., see K. Yoshimura 70 (1987) 11
Nakamura, Y., see H. Wada 70 (1987) 17
Nakamura, Y., see T. Sakakibara 70 (1987) 126
Nakamura, Y., see R. Ballou 70 (1987) 129
Nakamura, Y., see H. Wada 70 (1987) 134
Nakamura, Y., see G. Oomi 70 (1987) 137
Nakamura, Y., see K. Yoshimura 70 (1987) 142
Nakamura, Y., see H. Kamimura 70 (1987) 145
Nakamura, Y., see C.V. Narasimha Rao 70 (1987) 151
Nakamura, Y., see H. Yoshie 70 (1987) 303
Nakano, M., see M. Kontani 70 (1987) 378
Nakano, T., see A. Kotani 70 (1987) 28
Nakazawa, H., see S. Abe 70 (1987) 289
Nanba, T., see Y.S. Kwon 70 (1987) 397
Narasimha Rao, C.V., H. Wada, M. Shiga and Y. Nakamura, Magnetic properties

of the intermetallic compounds $Gd(Mn_{1-x}Ni_x)_2$ 70 (1987) 151
Negishi, H., see M. Inoue 70 (1987) 199
Negishi, H., M. Koyano, Y. Ueda, M. Sasaki and M. Inoue, Electrical and thermal properties of intercalation compound Fe_x-TiS_2 70 (1987) 203
Nemoto, T., see T. Sato 70 (1987) 411
Nishihara, H., S. Onoue, T. Ohtani and H. Yasuoka, Nuclear spin-lattice relaxation of ^{51}V in $Tl_xV_5S_8$ and $Tl_xV_6S_8$ 70 (1987) 225
Nishihara, Y., Magnetic properties of Laves phase compounds with iron (Invited paper) 70 (1987) 75
Nishihara, Y., M. Tokumoto, Y. Yamaguchi and G. Kido, Magnetic phase transition between ferromagnetic and antiferromagnetic states in $Ce(Fe_{1-x}Al_x)_2$ 70 (1987) 173
Nishihara, Y., see G. Kido 70 (1987) 181
Nishiyama, K., see G.M. Kalvius 70 (1987) 285
Noakes, D.R., see G.M. Kalvius 70 (1987) 285
Nojiri, H., see M. Motokawa 70 (1987) 245
Nowotny, H., see E. Gratz 70 (1987) 118

Ochiai, A., see A. Isobe 70 (1987) 391
Ochiai, A., see Y.S. Kwon 70 (1987) 397
Ogawa, S., see A. Fujimori 70 (1987) 67
Ogino, K., see H. Yoshie 70 (1987) 303
Ohashi, M., see Y. Yamaguchi 70 (1987) 197
Ohashi, M., T. Kanomata and T. Kaneko, The magnetic structure of chalcogenid spinel $CoRh_2S_4$ 70 (1987) 227
Ohashi, M., see S. Tomiyoshi 70 (1987) 236
Ohashi, M., see T. Kaneko 70 (1987) 277
Ohhata, K., see Y. Takano 70 (1987) 242
Ohmori, H., see S. Tomiyoshi 70 (1987) 247
Ohmori, H., S. Tomiyoshi, H. Yamauchi and H. Yamamoto, Spin structure and weak ferromagnetism of Mn_3Sn 70 (1987) 249
Ohoyama, T., see N. Yamada 70 (1987) 252
Ohta, E., see T. Sato 70 (1987) 411
Ohta, S., see S. Yuri 70 (1987) 215
Ohtani, S., see T. Miyadai 70 (1987) 201
Ohtani, T., see H. Nishihara 70 (1987) 225
Ohtsu, Y., see F. Ono 70 (1987) 319
Ohtsu, Y., see O. Yamada 70 (1987) 322
Ohtsuka, S., see H. Takahashi 70 (1987) 189
Ohyama, T., see J. Sakurai 70 (1987) 383
Okada, K., see A. Kotani 70 (1987) 28
Okada, M., see A. Kotani 70 (1987) 28
Okamoto, N., H. Nagai, H. Yoshie, A. Tsujimura and T. Hihara, The coexistence of ferromagnetic and antiferromagnetic interactions in the $GdMn_{12}$ compound 70 (1987) 299
Okamoto, T., H. Nagata, H. Fujii and Y. Makihara, Heat capacities of Laves phase compounds RMn_2 (R = Y, Gd and Er) 70 (1987) 139
Okamoto, T., see Y. Andoh 70 (1987) 168
Okamoto, T., see T. Shigeoka 70 (1987) 239
Okamoto, T., see K. Hiraoka 70 (1987) 255
Okamoto, T., see Y. Hashimoto 70 (1987) 291
Okamoto, T., see H. Fujii 70 (1987) 331
Ono, F., Y. Ohtsu and O. Yamada, Precision determination of magnetocrystalline anisotropy constants in $R_2Fe_{14}B$ intermetallic compounds 70 (1987) 319
Ono, F., see O. Yamada 70 (1987) 322
Onodera, S., see A. Isobe 70 (1987) 391
Onoue, S., see H. Nishihara 70 (1987) 225
Ōnuki, Y., see T. Sakakibara 70 (1987) 375
Oomi, G., T. Terada, M. Shiga and Y. Nakamura, Effect of pressure on the Néel temperature of the intermetallic compound YMn_2 70 (1987) 137
Otani, T., see M. Sagawa 70 (1987) 316
Otani, Y., see H. Miyajima 70 (1987) 325
Otto, M.J., H. Feil, R.A.M. van Woerden, J. Wijngaard, P.J. van der Valk, C.F. van Bruggen and C. Haas, Electronic structure and magnetic, electrical and optical properties of ferromagnetic Heusler alloys (Invited paper) 70 (1987) 33
Ouladdiaf, B., see J. Deportes 70 (1987) 14
Ouladdiaf, B., see R. Ballou 70 (1987) 129
Ouladdiaf, B., see J. Deportes 70 (1987) 191
Oyama, N., see H. Nagai 70 (1987) 171
Oyasato, M., see K. Ichinose 70 (1987) 154
Oyasato, M., K. Ichinose, K. Fujiwara and A. Tsujimura, Hyperfine fields at ^{89}Y nuclei in $Y(Fe_{1-x}T_x)_3$ (T = Al, Co) 70 (1987) 233

Panarotto, E., see C.M. da Silva 70 (1987) 52
Panarotto, E., see C.M. da Silva 70 (1987) 55
Parlebas, J.C., see A. Kotani 70 (1987) 28
Pei, Z., see S. Luo 70 (1987) 311
Pillmayr, N., see E. Gratz 70 (1987) 159
Pillmayr, N., C. Schmitzer, E. Gratz, G. Hilscher and V. Sechovsky, Specific heat measurements of (Ho, Y)Co_2 and (Dy, Y)Co_2 70 (1987) 162
Plugaru, N., see E. Burzo 70 (1987) 343
Pop, V., see E. Burzo 70 (1987) 343
Pösinger, A., see M. Reissner 70 (1987) 165
Potzel, U., see G.M. Kalvius 70 (1987) 359
Potzel, W., see G.M. Kalvius 70 (1987) 359

Radhakrishna, P., H. Fujii, S. Doniach, W. Reichardt and P. Charpin, Structural, magnetic and neutron diffraction studies on the series $(Co_{1-x}Mn_x)_2P$ (Abstract) 70 (1987) 229
Radwanski, R.J., J.J.M. Franse and S. Sinnema, Effective anisotropy constants in rare earth–3d intermetallics 70 (1987) 313
Regnault, L.P., see M. Kohgi 70 (1987) 393

Reichardt, W., see P. Radhakrishna 70 (1987) 229
Reissner, M., see W. Steiner 70 (1987) 105
Reissner, M., A. Pösinger and W. Steiner, High field Mössbauer investigations of paramagnetic $Y(Fe, Al)_2$ 70 (1987) 165
Rhyne, J.J., Neutron scattering in intermetallics (Invited paper) 70 (1987) 88
Rhyne, J.J., R.W. Erwin, J. Borchers, M.B. Salamon, R. Du and C.P. Flynn, Neutron scattering studies of magnetic ordering in rare earth multilayers (Abstract) 70 (1987) 117
Rossat-Mignod, J., see M. Kohgi 70 (1987) 393
Roudaut, E., see J. Deportes 70 (1987) 191

Sagawa, M., S. Hirosawa, T. Otani, H. Miyajima and S. Chikazumi, Temperature dependence of the coercivity of sintered $R_{17}Fe_{83-x}B_x$ magnets (R = Pr and Nd) 70 (1987) 316
Sagawa, M., see O. Yamada 70 (1987) 322
Sagawa, M., see H. Fujii 70 (1987) 331
Sagawa, M., see H. Nagata 70 (1987) 334
Sagawa, M., see H. Hiroyoshi 70 (1987) 337
Sagawa, M., see H. Yamauchi 70 (1987) 340
Sagawa, M., see J.P. Gavigan 70 (1987) 416
Saito, N., see H. Hiroyoshi 70 (1987) 337
Sakai, O., see Y.S. Kwon 70 (1987) 397
Sakakibara, T., T. Goto, K. Yoshimura, M. Shiga, Y. Nakamura and K. Fukamichi, High field magnetization of the Laves phase compounds $M(Co_{1-x}Al_x)_2$ (M = Y,Lu) 70 (1987) 126
Sakakibara, T., see K. Yoshimura 70 (1987) 147
Sakakibara, T., T. Goto, Y. Ōnuki and T. Komatsubara, High field magnetization of the Kondo lattice compound $CeCu_6$ 70 (1987) 375
Sakakibara, T., see T. Sato 70 (1987) 411
Sakata, A., see Y. Yamada 70 (1987) 175
Sakata, M., see T. Sato 70 (1987) 411
Sakurai, J., see H. Kamimura 70 (1987) 145
Sakurai, J., J. Schweizer, A. Stunault and T. Shinjo, ^{119}Sn Mössbauer studies on $Ce(Sn_{1-x}In_x)_3$, Ce_2Sn_5 and Ce_3Sn_7 70 (1987) 381
Sakurai, J., H. Kamimura, T. Ohyama, Y. Komura, D. Gignoux and R. Lemaire, Thermopower of $CeNi_5$ and CeNi single crystals 70 (1987) 383
Salamon, M.B., see J.J. Rhyne 70 (1987) 117
Sarkissian, B., see S. Komura 70 (1987) 428
Sasaki, M., see H. Negishi 70 (1987) 203
Sato, K., see Y. Isikawa 70 (1987) 385
Sato, M., see T. Kamimura 70 (1987) 209
Sato, M., see M. Yuzuri 70 (1987) 221
Sato, M., see T. Shinohara 70 (1987) 282
Sato, N., M. Kontani, H. Abe and K. Adachi, Magnetic properties of the 'normal' cerium compound Ce_2Zn_{17} 70 (1987) 372
Sato, N., see Y.S. Kwon 70 (1987) 397
Sato, T., T. Nemoto, E. Ohta, M. Sakata, T. Sakakibara and T. Goto, Reentrant spin glass properties of $Cr_{1-x-y}Mn_xFe_yGe$ 70 (1987) 411
Satoh, T., see Y. Tazuke 70 (1987) 194
Satoh, T., see M. Kohgi 70 (1987) 393
Sayetat, F., see J. Deportes 70 (1987) 191
Schiessl, W., see G.M. Kalvius 70 (1987) 359
Schmitzer, C., see N. Pillmayr 70 (1987) 162
Schweizer, J., see R. Ballou 70 (1987) 288
Schweizer, J., see J. Sakurai 70 (1987) 381
Sechovsky, V., see N. Pillmayr 70 (1987) 162
Sekizawa, K., see Y. Takano 70 (1987) 242
Senda, M., see M. Kontani 70 (1987) 378
Shelton, R.N., see K. Yagasaki 70 (1987) 405
Shiga, M., see H. Wada 70 (1987) 17
Shiga, M., see T. Sakakibara 70 (1987) 126
Shiga, M., see H. Wada 70 (1987) 134
Shiga, M., see G. Oomi 70 (1987) 137
Shiga, M., see K. Yoshimura 70 (1987) 142
Shiga, M., see H. Kamimura 70 (1987) 145
Shiga, M., see C.V. Narasimha Rao 70 (1987) 151
Shigeoka, T., N. Iwata, H. Fujii, T. Okamoto and Y. Hashimoto, Magnetic phase transitions in $PrCo_2Si_2$ 70 (1987) 239
Shigeoka, T., see K. Hiraoka 70 (1987) 255
Shigeoka, T., see N. Iwata 70 (1987) 279
Shimizu, K., NMR study of hyperfine interactions in $R_{1-x}Lu_xFe_2$ (R = Gd, Tb) 70 (1987) 178
Shimizu, M., see H. Yamada 70 (1987) 44
Shimizu, M., see H. Yamada 70 (1987) 47
Shimizu, M., see J. Inoue 70 (1987) 49
Shimizu, M., see K. Terao 70 (1987) 57
Shimizu, M. and J. Inoue, Electronic structure and magnetic properties of Y–Mn, Y–Fe, Y–Co and Y–Ni intermetallic compounds 70 (1987) 61
Shinjo, T., see J. Sakurai 70 (1987) 381
Shinogi, A., see K. Endo 70 (1987) 157
Shinohara, T., A. Furusawa, S. Hayashibe, M. Kanazawa and M. Sato, Hyperfine field at impurity ^{156}Gd nuclei in TbT_2 and TbT_3 compounds (T = Fe and Co) 70 (1987) 282
Shiraishi, H., M. Sugamura and T. Hori, Magnetic properties of $GaCo_{1-x}M_x$ (M = Fe, Mn) 70 (1987) 230
Shirakawa, K., T. Kanomata and T. Kaneko, Effect of hydrostatic pressure on the Curie temperature of the Heusler alloys Au_2MnAl and Pd_2MnZ (Z = Sn and Sb) 70 (1987) 421
Shirane, G., see S. Tomiyoshi 70 (1987) 236
Shono, M., see K. Kamigaki 70 (1987) 218
Šíma, V., see B. Lebech 70 (1987) 97
Sinnema, S., see R.J. Radwanski 70 (1987) 313
Smetana, Z., see B. Lebech 70 (1987) 97
Smith, J.L., S.E. Brown, B.R. Cooper, Z. Fisk, A.L. Giorgi, J.D. Thompson and J.O. Willis, Magnetism of actinide compounds (Invited paper) 70 (1987) 347

Spirlet, J.C., see G.M. Kalvius 70 (1987) 359
Stadnik, Z.M., P. Griesbach, G. Dehe, P. Gütlich and F. Maniawski, Nickel contribution to the magnetism of the Ni–Fe–V alloy 70 (1987) 436
Stadnik, Z.M., P. Griesbach, G. Dehe, P. Gütlich, T. Kohara and G. Stroink, Surface hyperfine magnetic field in nickel 70 (1987) 439
Stamm, W., see M. Acet 70 (1987) 427
Stamm, W., see E.F. Wassermann 70 (1987) 434
Steinbach, P., R.A. Brand and W. Keune, Hyperfine investigations of the magnetic state in ordered $Pt_{3-x}Fe_{1+x}$ 70 (1987) 102
Steiner, W. and M. Reissner, Magnetic behaviour of $Y(Fe, M)_2$ compounds M = Al, Co, Rh, Ir 70 (1987) 105
Steiner, W., see M. Reissner 70 (1987) 165
Stroink, G., see Z.M. Stadnik 70 (1987) 439
Stunault, A., see J. Sakurai 70 (1987) 381
Suga, S., see A. Fujimori 70 (1987) 67
Sugamura, M., see H. Shiraishi 70 (1987) 230
Suzuki, N., T. Yamasaki and K. Motizuki, Electronic band structures of intercalation compounds of 3d transition metals with TiS_2 70 (1987) 64
Suzuki, S., see H. Matsui 70 (1987) 400
Suzuki, T., see A. Isobe 70 (1987) 391
Suzuki, T., see Y.S. Kwon 70 (1987) 397

Takahashi, H., T. Ukai and N. Mori, On the appearance of ferromagnetism in $Y(Co_{1-x}Al_x)_2$ alloys 70 (1987) 149
Takahashi, H., S. Ohtsuka, T. Ukai and N. Mori, On the orbital moment of Co in YCo_5 70 (1987) 189
Takahashi, Y., see K. Yoshimura 70 (1987) 11
Takano, Y., K. Ohhata and K. Sekizawa, The low temperature magnetic anisotropy of the RRh_2Si_2 systems (R: Rare earth elements) 70 (1987) 242
Takeda, H., see Y. Isikawa 70 (1987) 385
Takeda, K., H. Deguchi and T. Kohara, Magnetic interactions in $Nd_{1-x}La_xRh_3B_2$ 70 (1987) 297
Takeda, T., see S. Komura 70 (1987) 428
Takeda, T., S. Komura, T. Miyazaki, Y. Endoh and S. Itoh, Small-angle scattering of polarized neutrons from an $Fe_{65}{}^{62}Ni_{35}$ Invar alloy 70 (1987) 431
Takegahara, K., see Y.S. Kwon 70 (1987) 397
Takei, F., see M. Kohgi 70 (1987) 393
Takigawa, M., see K. Yoshimura 70 (1987) 11
Takigawa, M., see K. Yoshimura 70 (1987) 142
Tamaki, M., see H. Matsui 70 (1987) 400
Tamari, K., T. Kusuda and S. Honda, Structure and magnetic properties of Co–CoO films with layered structure 70 (1987) 258
Taniguchi, M., see A. Fujimori 70 (1987) 67
Tapuchi, S., see G.M. Kalvius 70 (1987) 359
Tazuke, Y., T. Satoh and T. Miyadai, Magnetic properties of M_xTiS_2 (M = V, Fe, Co) 70 (1987) 194
Tazuke, Y., see T. Miyadai 70 (1987) 201
Terada, T., see G. Oomi 70 (1987) 137
Terakura, K., see A. Fujimori 70 (1987) 67
Terao, K. and M. Shimizu, Electronic structure and magnetovolume effect of AFe_2 compounds with C14 and C15 Laves structures 70 (1987) 57
Thompson, J.D., see J.L. Smith 70 (1987) 347
Tohyama, T., see H. Yamada 70 (1987) 44
Tohyama, T., see Y. Kasamatsu 70 (1987) 294
Tokumoto, M., see Y. Nishihara 70 (1987) 173
Tokunaga, T., see H. Fujiwara 70 (1987) 301
Tomiyoshi, S., Y. Yamaguchi, M. Ohashi, E.R. Cowley and G. Shirane, Neutron scattering study on the magnetic excitations in Mn_3Si 70 (1987) 236
Tomiyoshi, S., H. Yoshida, H. Ohmori, T. Kaneko and H. Yamamoto, Electrical properties of the intermetallic compound Mn_3Sn 70 (1987) 247
Tomiyoshi, S., see H. Ohmori 70 (1987) 249
Tonegawa, T., see M. Kaburagi 70 (1987) 408
Tsujimura, A., see K. Ichinose 70 (1987) 154
Tsujimura, A., see H. Nagai 70 (1987) 171
Tsujimura, A., see K. Fujiwara 70 (1987) 184
Tsujimura, A., see M. Oyasato 70 (1987) 233
Tsujimura, A., see N. Okamoto 70 (1987) 299
Tsujimura, A., see H. Yoshie 70 (1987) 303

Ueda, Y., see H. Negishi 70 (1987) 203
Ukai, T., see H. Takahashi 70 (1987) 149
Ukai, T., see H. Takahashi 70 (1987) 189
Ursu, M., see E. Burzo 70 (1987) 345
Uwatoko, Y., see H. Fujii 70 (1987) 331

Van Bruggen, C.F., see M.J. Otto 70 (1987) 33
Van der Valk, P.J., see M.J. Otto 70 (1987) 33
Van Woerden, R.A.M., see M.J. Otto 70 (1987) 33
Vettier, C., see J.J.M. Franse 70 (1987) 351
Vettier, C., see D. Gignoux 70 (1987) 388
Voiron, J., see D. Gignoux 70 (1987) 388

Wachter, P., see F. Marabelli 70 (1987) 364
Wada, H., H. Nakamura, E. Fukami, K. Yoshimura, M. Shiga and Y. Nakamura, Spin fluctuations of $Y(Mn_{1-x}Al_x)_2$ and $Y_{1-x}Sc_xMn_2$ 70 (1987) 17
Wada, H., H. Nakamura, K. Yoshimura, M. Shiga and Y. Nakamura, Stability of Mn moments and spin fluctuations in RMn_2 (R: Rare earth) 70 (1987) 134
Wada, H., see C.V. Narasimha Rao 70 (1987) 151
Wagner, H.-G., see U. Gonser 70 (1987) 419

Walker, K.-H., see C. Carbone 70 (1987) 435
Wäppling, R., see G.M. Kalvius 70 (1987) 285
Wassermann, E.F., see E. Kisker 70 (1987) 21
Wassermann, E.F., see M. Acet 70 (1987) 427
Wassermann, E.F., H. Zähres, M. Acet and W. Stamm, Thermal expansion of $Fe_{50}Ni_xMn_{50-x}$ (Abstract) 70 (1987) 434
Wassermann, E.F., see C. Carbone 70 (1987) 435
Wijngaard, J., see M.J. Otto 70 (1987) 33
Willis, J.O., see J.L. Smith 70 (1987) 347
Woods, S.B., see K. Kadowaki 70 (1987) 403

Yagasaki, K., K.A. Gschneidner, Jr., R.N. Shelton, A.J. Bevolo and L.E. DeLong, Magnetic susceptibility of U_6M (M = Fe, Co and Ni) 70 (1987) 405
Yamada, H., T. Tohyama and M. Shimizu, The itinerant electron metamagnetism for $ScCo_2$, YCo_2 and $LuCo_2$ 70 (1987) 44
Yamada, H. and M. Shimizu, Magnetic properties of antiferromagnetic YMn_2 and magnetic structure of $GdMn_2$ 70 (1987) 47
Yamada, K., see A. Isobe 70 (1987) 391
Yamada, M., H. Kato, H. Hiroyoshi, H. Yamamoto and Y. Nakagawa, Crystal field theory of magnetism in $R_2Fe_{14}B$ 70 (1987) 328
Yamada, M., see H. Hiroyoshi 70 (1987) 337
Yamada, N. and T. Ohoyama, Molecular field model for κ-Mn_5Ge_2 70 (1987) 252
Yamada, O., see F. Ono 70 (1987) 319
Yamada, O., Y. Ohtsu, F. Ono, M. Sagawa and S. Hirosawa, Magnetocrystalline anisotropy in $Nd_2Fe_{14}B$ intermetallic compound 70 (1987) 322
Yamada, O., see J.P. Gavigan 70 (1987) 416
Yamada, Y., Y. Kitaoka, K. Asayama and A. Sakata, NMR study of coexistence of ferro- and antiferromagnetism in $(Zr_{1-x}Nb_x)Fe_2$ 70 (1987) 175
Yamaguchi, Y., see Y. Nishihara 70 (1987) 173
Yamaguchi, Y., see G. Kido 70 (1987) 181
Yamaguchi, Y., A.I. Goldman, K. Ishimoto and M. Ohashi, Magnetic excitations in an itinerant electron antiferromagnet Cr_2As 70 (1987) 197
Yamaguchi, Y., see S. Tomiyoshi 70 (1987) 236
Yamaguchi, Y., see Y. Nakagawa 70 (1987) 413
Yamamoto, H., see S. Tomiyoshi 70 (1987) 247
Yamamoto, H., see H. Ohmori 70 (1987) 249
Yamamoto, H., see M. Yamada 70 (1987) 328
Yamamoto, H., see H. Fujii 70 (1987) 331
Yamamoto, H., see H. Yamauchi 70 (1987) 340
Yamasaki, T., see N. Suzuki 70 (1987) 64
Yamauchi, H., see H. Ohmori 70 (1987) 249
Yamauchi, H., see S. Abe 70 (1987) 289
Yamauchi, H., H. Yamamoto, H. Hirosawa and M. Sagawa, Magnetic properties of $R_2Co_{14}B$ compounds (R = La, Nd, Gd) 70 (1987) 340
Yamazaki, T., see G.M. Kalvius 70 (1987) 285
Yanase, A., Band calculation for Ce-compounds 70 (1987) 73
Yaouanc, A., see G.M. Kalvius 70 (1987) 285
Yasui, H., see T. Kanomata 70 (1987) 263
Yasuoka, H., see K. Yoshimura 70 (1987) 11
Yasuoka, H., see K. Yoshimura 70 (1987) 142
Yasuoka, H., see H. Nishihara 70 (1987) 225
Yoshida, H., see K. Kamigaki 70 (1987) 218
Yoshida, H., see S. Tomiyoshi 70 (1987) 247
Yoshida, H., see T. Kanomata 70 (1987) 263
Yoshida, H., S. Abe, T. Kaneko and K. Kamigaki, Pressure effect on the Néel temperature of GdCu, GdAg, TbCu and TbAg 70 (1987) 275
Yoshida, H., see T. Kaneko 70 (1987) 277
Yoshida, H., see S. Abe 70 (1987) 289
Yoshie, H., see H. Nagai 70 (1987) 171
Yoshie, H., see N. Okamoto 70 (1987) 299
Yoshie, H., K. Ogino, H. Nagai, A. Tsujimura and Y. Nakamura, Nuclear magnetic resonance study of RCo_5 R = Y, Ce, Pr, Nd, Sm, Gd, Tb, Dy and Ho 70 (1987) 303
Yoshimoto, Y., see K. Yoshimura 70 (1987) 147
Yoshimura, K., M. Takigawa, Y. Takahashi, H. Yasuoka, M. Mekata and Y. Nakamura, Spin fluctuations in weakly itinerant ferromagnets $Y(Co_{1-x}Al_x)_2$ 70 (1987) 11
Yoshimura, K., see H. Wada 70 (1987) 17
Yoshimura, K., see T. Sakakibara 70 (1987) 126
Yoshimura, K., see H. Wada 70 (1987) 134
Yoshimura, K., H. Nakamura, M. Takigawa, H. Yasuoka, M. Shiga and Y. Nakamura, NMR study of nearly itinerant antiferromagnetic $Y_{1-x}Sc_xMn_2$ 70 (1987) 142
Yoshimura, K., Y. Yoshimoto, M. Mekata, T. Sakakibara and T. Goto, Itinerant metamagnetic transition in $Y(Co_{1-x}Fe_x)_2$ 70 (1987) 147
Yuri, S., S. Ohta, S. Anzai, M. Aikawa and K. Hatakeyama, Magnetic susceptibility, electrical resistivity and thermal expansion coefficient of NiAs-type $V_{1-x}Cr_xSe$ 70 (1987) 215
Yuzuri, M. and M. Sato, Magnetic properties of the $Cr_3S_{4-x}Te_x$ 70 (1987) 221
Yuzuri, M., T. Kanomata and T. Kaneko, The pressure effect on the Curie temperature and exchange striction of Cr_2S_3 and Cr_2Te_3 70 (1987) 223

Zähres, H., see M. Acet 70 (1987) 427
Zähres, H., see E.F. Wassermann 70 (1987) 434
Zhang, G., see S. Luo 70 (1987) 311
Ziebeck, K.R.A., see J. Deportes 70 (1987) 14

SUBJECT INDEX TO VOLUME 70

Actinides 70 (1987) 347
Amorphous systems
– metals 70 (1987) 419
– RE compounds 70 (1987) 88
Anisotropy 70 (1987) 189, 309
– magnetic 70 (1987) 242, 306, 319, 322, 325
– magnetocrystalline 70 (1987) 97, 313
Antiferromagnet
– nearly 70 (1987) 17
Antiferromagnetism 70 (1987) 197, 218, 227, 236, 275, 378
Augmented Plane Wave method 70 (1987) 1, 64, 70, 73, 211

Band calculation 70 (1987) 73
Band structure 70 (1987) 64, 67, 70
Boltzmann equation 70 (1987) 118

Chalcogenides 70 (1987) 1, 201, 227
Coercivity 70 (1987) 316
Coherent potential approximation 70 (1987) 52, 55
Crystal field 70 (1987) 242, 273, 279, 291
– effect 70 (1987) 375
Crystal structure 70 (1987) 39, 271
Curie temperature 70 (1987) 311, 334, 343, 345
– composition-dependent 70 (1987) 105, 107, 151, 168, 171

De Haas–van Alphen effect 70 (1987) 20
Density of states 70 (1987) 47, 49, 57, 61, 70
Dilution effect 70 (1987) 297

Electrical resistivity 70 (1987) 33, 118, 145, 159, 213, 247, 383, 403, 405
Electronic structure 70 (1987) 21, 33, 39, 47, 55, 57, 61, 64, 70, 187, 364
Exchange
– constant 70 (1987) 279
Exchange interaction 70 (1987) 273, 421
– four-spin 70 (1987) 112
Exchange striction 70 (1987) 223
Excitons 70 (1987) 397

Fermi surface 70 (1987) 70
Ferromagnetism 70 (1987) 149, 230
First-order transition 70 (1987) 388
Frustration 70 (1987) 129

Hall effect 70 (1987) 33
Hard magnetic materials 70 (1987) 331
Heat capacity 70 (1987) 139, 331
Heavy fermions 70 (1987) 359, 364, 378, 403
Helimagnetism 70 (1987) 129
Heusler alloys 70 (1987) 33, 265, 421
High field magnetism 70 (1987) 245, 337, 351, 375, 416
High magnetic field 70 (1987) 181
Hyperfine fields 70 (1987) 75, 102, 154, 165, 168, 184, 187, 233, 265, 282, 294, 303

Incommensurate magnetic structures
– incommensurate spin density wave 70 (1987) 442
Instabilities
– magnetic 70 (1987) 81
Intercalation compounds 70 (1987) 64, 194
Intermetallic compounds 70 (1987) ISMIC
Invar alloys 70 (1987) 423, 425, 428, 431
Ising ferromagnet 70 (1987) 372
Itinerant electrons 70 (1987) 203, 211
– antiferromagnetism 70 (1987) 139, 142, 145
– ferromagnetism 70 (1987) 157
– magnetism 70 (1987) 1, 199, 201
– metamagnetism 70 (1987) 44, 147
– weak ferromagnetism 70 (1987) 11, 147

Kondo anomaly 70 (1987) 369
Kondo effect 70 (1987) 375, 378, 385, 393, 397

Lattice constants 70 (1987) 39, 149
Lattice distortion 70 (1987) 115
Laves phase compounds 70 (1987) ISMIC
Local moments
– pseudobinary compounds 70 (1987) 49
Local spin structure 70 (1987) 102
Long-range order 70 (1987) 105

Magnetic excitations 70 (1987) 236, 393
Magnetic frustration 70 (1987) 191
Magnetic interactions 70 (1987) 299
Magnetic moments 70 (1987) 205, 436
Magnetic ordering 70 (1987) 117
Magnetic phase diagram 70 (1987) 112, 173, 408
Magnetic phase transitions 70 (1987) 207

Magnetic structures 70 (1987) 47, 97, 191, 239, 273, 291, 431
Magnetic transition 70 (1987) 205, 255, 263
Magnetization
– curves 70 (1987) 289, 340
– high-field 70 (1987) 126, 147
– processes 70 (1987) 319, 325, 328, 337
– saturation 70 (1987) 107, 171, 343, 345
– spontaneous 70 (1987) 81
– temperature-dependent 70 (1987) 151
Magnetoelastic coupling 70 (1987) 115
Magneto-optics 70 (1987) 33
Magnetostriction
– forced 70 (1987) 207
Magnetovolume effects 70 (1987) 57, 81, 427
Metal hydride 70 (1987) 184
Metal–nonmetal transitions 70 (1987) 213
Metamagnetism 70 (1987) 44, 126, 147, 157
Mixed valances 70 (1987) 28, 394
Molecular-field theory 70 (1987) 252
Mössbauer effect 70 (1987) 173, 359, 423
Mössbauer spectroscopy 70 (1987) 381, 436, 439
– Fe alloys 70 (1987) 102
– Fe compounds 70 (1987) 105
– high-field 70 (1987) 165
– transition-metal compounds 70 (1987) 168
Multilayered structure 70 (1987) 258
Multiple spin density wave 70 (1987) 115
Multiplet structure 70 (1987) 394
Muon spin rotation 70 (1987) 285

Néel temperature
– pressure-dependent 70 (1987) 137
Neutron diffraction 70 (1987) 107, 227, 229, 239, 277, 413
Neutron irradiation effect 70 (1987) 400
Neutron scattering 70 (1987) 197, 236, 288, 351
– elastic 70 (1987) 88
– inelastic 70 (1987) 88
– magnetic ordering 70 (1987) 117
– small angle 70 (1987) 431
Nuclear magnetic resonance 70 (1987) 11, 134, 142, 175, 178, 184, 255, 265, 294, 303
– spin echo 70 (1987) 154
Nuclear spin-lattice relaxation 70 (1987) 11, 142, 225

One-dimensional systems 70 (1987) 225

Paramagnetic neutron diffusion 70 (1987) 14
Paramagnetic states 70 (1987) 194
Paramagnetism
– Pauli 70 (1987) 215
Permanent magnets 70 (1987) 316, 322
Phase transitions
– ferro–antiferromagnetic 70 (1987) 173, 221
– ferromagnetic–spin glass 70 (1987) 209
– field-induced 70 (1987) 181, 261
– high-spin–low-spin 70 (1987) 21
– metal–nonmetal 70 (1987) 67
– metamagnetic 70 (1987) 157
– para–antiferromagnetic 70 (1987) 175
– structural 70 (1987) 70
Photoabsorption 70 (1987) 28, 394
Photoemission 70 (1987) 21, 28, 67, 435
Pressure effect 70 (1987) 137, 223, 263, 275, 294, 334, 369, 388, 421
Pseudobinary compounds 70 (1987) 49, 52, 55, 151, 171

Quasiparticles 70 (1987) 445
Quenching 70 (1987) 419

Rare earth 70 (1987) 178
– compounds 70 (1987) 275, 289, 340
– intermetallics 70 (1987) 88, 97, 107, 118, 159, 162
– multilayers 70 (1987) 117
Rare earth–transition metal compounds 70 (1987) 81
Re-entrant spin glass 70 (1987) 230, 411
Resistivity
– temperature-dependent 70 (1987) 351
Rhombohedral structure 70 (1987) 311
RKKY interaction 70 (1987) 297

Schottky anomaly 70 (1987) 378
Self-consistent renormalization theory 70 (1987) 11
Solitons 70 (1987) 442
Specific heat 70 (1987) 162, 351, 372, 385
Spin dynamics 70 (1987) 285
Spin-echo spectra 70 (1987) 233, 428
Spin fluctuations 70 (1987) 1, 8, 11, 14, 17, 75, 134, 142, 145, 159, 201, 428
Spin glass 70 (1987) 162
Spin–orbit interaction 70 (1987) 189
Spin reorientation 70 (1987) 107, 301, 328
Spin structures
– canted 70 (1987) 413
– modulated 70 (1987) 112
– triangular 70 (1987) 247, 249
Spin waves 70 (1987) 197, 236
– ferromagnetic 70 (1987) 211
Spinel 70 (1987) 227
Structural
– transformation 70 (1987) 218
Structure phenomena 70 (1987) 229
Sublattice magnetization 70 (1987) 252
Superconductivity 70 (1987) 8
– heavy fermion 70 (1987) ISMIC
Surface magnetism 70 (1987) 439

Susceptibility
- ac 70 (1987) 411
- dynamic 70 (1987) 211
- high temperature 70 (1987) 351
- large magnetic 70 (1987) 445
- magnetic 70 (1987) 205, 213, 215, 271, 277, 289, 391, 405
- nonlinear local 70 (1987) 408

Thermal conductivity 70 (1987) 118
Thermal expansion 70 (1987) 134, 137, 331, 434
Thermoelectric power 70 (1987) 145
Thermopower 70 (1987) 118, 383
3d transition metals 70 (1987) 64, 199
Torque magnetometry 70 (1987) 301
Transition metal
- pnictides 70 (1987) 268
Transport properties 70 (1987) 118, 159, 203, 391
Tricritical systems 70 (1987) 209

X-ray diffraction 70 (1987) 221
X-structure 70 (1987) 171

CONTENTS

Preface vii
Committees viii
Contents ix

Chapter 1. Spin fluctuations

Motizuki, K.
Recent advances in the theory of magnetism of NiAs-type transition-metal chalcogenides and pnictides (Invited paper) 1
Kolodziejczyk, A.
Spin fluctuations in the magnetic superconductor Y_9Co_7 8
Yoshimura, K., M. Takigawa, Y. Takahashi, H. Yasuoka, M. Mekata and Y. Nakamura
Spin fluctuations in weakly itinerant ferromagnets $Y(Co_{1-x}Al_x)_2$ 11
Deportes, J., B. Ouladdiaf and K.R.A. Ziebeck
Spin fluctuations in the paramagnetic state of YMn_2 14
Wada, H., H. Nakamura, E. Fukami, K. Yoshimura, M. Shiga and Y. Nakamura
Spin fluctuations of $Y(Mn_{1-x}Al_x)_2$ and $Y_{1-x}Sc_xMn_2$ 17
Lonzarich, G.G.
Spin fluctuations in intermetallics (Abstract only, full paper on page 445) 20

Chapter 2. Electronic structure and related properties

Kisker, E., C. Carbone, C.F. Flipse and E.F. Wassermann
Photoemission of intermetallics (Invited paper) 21
Kotani, A., T. Jo, K. Okada, T. Nakano, M. Okada, A. Bianconi, A. Marcelli and J.C. Parlebas
High energy spectroscopy in Ce and La compounds (Invited paper) 28
Otto, M.J., H. Feil, R.A.M. van Woerden, J. Wijngaard, P.J. van der Valk, C.F. van Bruggen and C. Haas
Electronic structure and magnetic, electrical and optical properties of ferromagnetic Heusler alloys (Invited paper) 33
Asano, S. and S. Ishida
Electronic structures of Laves phase compounds (Invited paper) 39
Yamada, H., T. Tohyama and M. Shimizu
The itinerant electron metamagnetism for $ScCo_2$, YCo_2 and $LuCo_2$ 44
Yamada, H. and M. Shimizu
Magnetic properties of antiferromagnetic YMn_2 and magnetic structure of $GdMn_2$ 47
Inoue, J. and M. Shimizu
Electronic density of states in pseudobinary compounds $Y(Fe–Co)_2$ and $Y(Mn–Co)_2$ 49
Da Silva, C.M., F.P. Livi, E. Panarotto and A.A. Gomes
Magnetic properties of $Zr(FeAl)_2$ pseudobinaries: A CPA study 52
Da Silva, C.M., F.P. Livi, E. Panarotto, S.F. da Cunha and A.A. Gomes
Magnetic properties and a combined recursive-CPA calculation of pseudobinary intermetallics: Application to $Hf(FeAl)_2$ 55
Terao, K. and M. Shimizu
Electronic structure and magnetovolume effect of AFe_2 compounds with C14 and C15 Laves structures 57
Shimizu, M. and J. Inoue
Electronic structure and magnetic properties of Y–Mn, Y–Fe, Y–Co and Y–Ni intermetallic compounds 61
Suzuki, N., T. Yamasaki and K. Motizuki
Electronic band structures of intercalation compounds of 3d transition metals with TiS_2 64
Fujimori, A., M. Matoba, S. Anzai, K. Terakura, M. Taniguchi, S. Ogawa and S. Suga
Localized versus itinerant character of d electrons in NiS: Photoemission spectroscopic study 67
Morifuji, M. and K. Motizuki
Electronic band structures of FeAs, CoAs and NiAs 70
Yanase, A.
Band calculation for Ce-compounds 73

Chapter 3. Spin structure

Nishihara, Y.
Magnetic properties of Laves phase compounds with iron (Invited paper) 75
Gignoux, D.
Magnetic instabilities in the rare earth–3d compounds (Invited paper) 81
Rhyne, J.J.
Neutron scattering in intermetallics (Invited paper) 88
Lebech, B., Z. Smetana and V. Šíma
Magnetic structures and related properties of some rare-earth intermetallic compounds, RCu_2 (Invited paper) 97
Steinbach, P., R.A. Brand and W. Keune
Hyperfine investigations of the magnetic state in ordered $Pt_{3-x}Fe_{1+x}$ 102
Steiner, W. and M. Reissner

Magnetic behaviour of $Y(Fe, M)_2$ compounds M = Al, Co, Rh, Ir 105
Ho, W.W.
Magnetic properties and spin reorientation of iron rare earth based intermetallics (Invited paper) 107
Hirai, K.
Modulated spin structures due to the four-spin exchange interaction in some intermetallic compounds 112
Jo, T.
Lattice distortion and multiple spin density wave state in CsCl type AuMn 115
Rhyne, J.J., R.W. Erwin, J. Borchers, M.B. Salamon, R. Du and C.P. Flynn
Neutron scattering studies of magnetic ordering in rare earth multilayers (Abstract) 117

Chapter 4. Laves phase compounds and related theory

Gratz, E., E. Bauer and H. Nowotny
Transport properties in rare earth intermetallics (Invited paper) 118
Sakakibara, T., T. Goto, K. Yoshimura, M. Shiga, Y. Nakamura and K. Fukamichi
High field magnetization of the Laves phase compounds $M(Co_{1-x}Al_x)_2$ (M = Y,Lu) 126
Ballou, R., J. Deportes, R. Lemaire, Y. Nakamura and B. Ouladdiaf
Helimagnetism in the cubic Laves phase YMn_2 129
Wada, H., H. Nakamura, K. Yoshimura, M. Shiga and Y. Nakamura
Stability of Mn moments and spin fluctuations in RMn_2 (R: Rare earth) 134
Oomi, G., T. Terada, M. Shiga and Y. Nakamura
Effect of pressure on the Néel temperature of the intermetallic compound YMn_2 137
Okamoto, T., H. Nagata, H. Fujii and Y. Makihara
Heat capacities of Laves phase compounds RMn_2 (R = Y, Gd and Er) 139
Yoshimura, K., H. Nakamura, M. Takigawa, H. Yasuoka, M. Shiga and Y. Nakamura
NMR study of nearly itinerant antiferromagnetic $Y_{1-x}Sc_xMn_2$ 142
Kamimura, H., J. Sakurai, Y. Komura, H. Nakamura, M. Shiga and Y. Nakamura
Thermoelectric power of $Y(Mn_{1-x}Al_x)_2$ 145
Yoshimura, K., Y. Yoshimoto, M. Mekata, T. Sakakibara and T. Goto
Itinerant metamagnetic transition in $Y(Co_{1-x}Fe_x)_2$ 147
Takahashi, H., T. Ukai and N. Mori
On the appearance of ferromagnetism in $Y(Co_{1-x}Al_x)_2$ alloys 149
Narasimha Rao, C.V., H. Wada, M. Shiga and Y. Nakamura
Magnetic properties of the intermetallic compounds $Gd(Mn_{1-x}Ni_x)_2$ 151
Ichinose, K., K. Fujiwara, M. Nakamura, M. Oyasato and A. Tsujimura
NMR study of Laves phase $(Mg_{1-x}R_x)Co_2$ compounds 154
Endo, K., K. Ishiyama and A. Shinogi
Itinerant electron ferromagnetism in the Laves phase compounds $Sc(Co_{1-x}Al_x)_2$ and $Lu(Co_{1-y}Al_y)_2$ 157
Gratz, E., N. Pillmayr, E. Bauer and G. Hilscher
Temperature and concentration dependence of the electrical resistivity in (RE, Y)Co_2 (RE = Rare earth element) 159
Pillmayr, N., C. Schmitzer, E. Gratz, G. Hilscher and V. Sechovsky
Specific heat measurements of (Ho, Y)Co_2 and (Dy, Y)Co_2 162
Reissner, M., A. Pösinger and W. Steiner
High field Mössbauer investigations of paramagnetic $Y(Fe, Al)_2$ 165
Andoh, Y., T. Hashimoto, H. Fujii, T. Okamoto and H. Fujiwara
Magnetic moments and ^{57}Fe hyperfine field interactions in $Y(Fe_{1-x}Ru_x)_2$ ternaries 168
Nagai, H., N. Oyama, H. Yoshie and A. Tsujimura
The anomalous behaviour of Gd atoms in $Gd(Fe_{1-x}Mn_x)_2$ compounds 171
Nishihara, Y., M. Tokumoto, Y. Yamaguchi and G. Kido
Magnetic phase transition between ferromagnetic and antiferromagnetic states in $Ce(Fe_{1-x}Al_x)_2$ 173
Yamada, Y., Y. Kitaoka, K. Asayama and A. Sakata
NMR study of coexistence of ferro- and antiferromagnetism in $(Zr_{1-x}Nb_x)Fe_2$ 175
Shimizu, K.
NMR study of hyperfine interactions in $R_{1-x}Lu_xFe_2$ (R = Gd, Tb) 178
Kido, G., Y. Nakagawa, Y. Nishihara and Y. Yamaguchi
Ferromagnetic to ferromagnetic phase transition in $Sc_{0.25}Ti_{0.75}Fe_2$ under pulsed high magnetic field 181
Fujiwara, K., K. Ichinose, H. Nagai and A. Tsujimura
^1H NMR study of YT_2-hydride (T = Fe, Mn) 184
Asano, S. and S. Ishida
Hyperfine fields of Laves phase compounds 187
Takahashi, H., S. Ohtsuka, T. Ukai and N. Mori
On the orbital moment of Co in YCo_5 189
Deportes, J., R. Lemaire, B. Ouladdiaf, E. Roudaut and F. Sayetat
Antiferromagnetism of the hexagonal Laves phase $ThMn_2$ 191

Chapter 5. 3d transition metal compounds

Tazuke, Y., T. Satoh and T. Miyadai
Magnetic properties of M_xTiS_2 (M = V, Fe, Co) 194
Yamaguchi, Y., A.I. Goldman, K. Ishimoto and M. Ohashi
Magnetic excitations in an itinerant electron antiferromagnet Cr_2As 197
Inoue, M. and H. Negishi

Itinerant magnetic character in 3d transition-metal intercalation compounds M_xTiS_2 199
Miyadai, T., S. Ohtani and Y. Tazuke
Magnetic properties of the pyrite type Fe_x-$Co_{1-x-y}Ni_yS_2$ system 201
Negishi, H., M. Koyano, Y. Ueda, M. Sasaki and M. Inoue
Electrical and thermal properties of intercalation compound Fe_xTiS_2 203
Ido, H.
Temperature-dependent magnetic moment in the MnAs–CrAs system 205
Kido, G. and H. Ido
Forced magnetostrictions on $MnAs_{1-x}P_x$ ($x <$ 0.275) under pulsed magnetic field up to 300 kOe 207
Kamimura, T., M. Sato and T. Iwata
Spin-freezing processes around the tricritical point in $Mn_{1-x}Ti_xSb$ 209
Katoh, K. and K. Motizuki
Theoretical study of spin waves in the itinerant ferromagnetic state of MnAs 211
Matoba, M. and S. Anzai
The T^2-contribution to the electrical resistivity at low temperatures in NiAs-type $Ni_{1-x}S_{1-y}Se_y$ 213
Yuri, S., S. Ohta, S. Anzai, M. Aikawa and K. Hatakeyama
Magnetic susceptibility, electrical resistivity and thermal expansion coefficient of NiAs-type $V_{1-x}Cr_xSe$ 215
Kamigaki, K., M. Shono, H. Yoshida, S. Abe and T. Kaneko
Magnetic properties of pseudobinary compounds $CrSb_{1-x}As_x$ 218
Yuzuri, M. and M. Sato
Magnetic properties of the $Cr_3S_{4-x}Te_x$ 221
Yuzuri, M., T. Kanomata and T. Kaneko
The pressure effect on the Curie temperature and exchange striction of Cr_2S_3 and Cr_2Te_3 223
Nishihara, H., S. Onoue, T. Ohtani and H. Yasuoka
Nuclear spin-lattice relaxation of ^{51}V in $Tl_xV_5S_8$ and $Tl_xV_6S_8$ 225
Ohashi, M., T. Kanomata and T. Kaneko
The magnetic structure of chalcogenid spinel $CoRh_2S_4$ 227
Radhakrishna, P., H. Fujii, S. Doniach, W. Reichardt and P. Charpin
Structural, magnetic and neutron diffraction studies on the series $(Co_{1-x}Mn_x)_2P$ (Abstract) 229
Shiraishi, H., M. Sugamura and T. Hori
Magnetic properties of $GaCo_{1-x}M_x$ (M = Fe, Mn) 230
Oyasato, M., K. Ichinose, K. Fujiwara and A. Tsujimura
Hyperfine fields at ^{89}Y nuclei in $Y(Fe_{1-x}T_x)_3$ (T = Al, Co) 233
Tomiyoshi, S., Y. Yamaguchi, M. Ohashi, E.R. Cowley and G. Shirane
Neutron scattering study on the magnetic excitations in Mn_3Si 236
Shigeoka, T., N. Iwata, H. Fujii, T. Okamoto and Y. Hashimoto
Magnetic phase transitions in $PrCo_2Si_2$ 239
Takano, Y., K. Ohhata and K. Sekizawa
The low temperature magnetic anisotropy of the RRh_2Si_2 systems (R: Rare earth elements) 242
Motokawa, M., S. Kawarazaki, H. Nojiri and T. Inoue
Magnetization measurements of $Fe_{1-x}Co_xSi$ 245
Tomiyoshi, S., H. Yoshida, H. Ohmori, T. Kaneko and H. Yamamoto
Electrical properties of the intermetallic compound Mn_3Sn 247
Ohmori, H., S. Tomiyoshi, H. Yamauchi and H. Yamamoto
Spin structure and weak ferromagnetism of Mn_3Sn 249
Yamada, N. and T. Ohoyama
Molecular field model for κ-Mn_5Ge_2 252
Hiraoka, K., T. Hihara, T. Shigeoka, H. Fujii and T. Okamoto
^{55}Mn nuclear magnetic resonance studies in RMn_2Ge_2 (R = Rare earths) 255
Tamari, K., T. Kusuda and S. Honda
Structure and magnetic properties of Co–CoO films with layered structure 258
Kaneko, T., T. Kanomata, S. Miura, G. Kido and Y. Nakagawa
Field-induced transitions in intermetallic compounds Mn_3Ga and Mn_3ZnC 261
Kanomata, T., H. Yasui, H. Yoshida and T. Kaneko
The pressure effect on transition temperature of $Mn_3Ga_{1-x}M_xC$ (M = Al, In) 263
Kawakami, M., Y. Kasamatsu and H. Ido
Temperature and pressure dependence of NMR frequencies in ferromagnetic Heusler alloys containing cobalt and manganese 265
Bärner, K.
Correlation of magnetic and transport properties for some mixed magnetic transition metal pnictides 268

Chapter 6. Rare earth compounds

Kanematsu, K. and K.I. Kobayashi
Magnetic properties of $PuNi_3$ type intermetallic compounds $Y_xZr_{1-x}Co_{2.9}$ and their hydrides 271
Kimura, I.
Magnetic structure and exchange interaction in $DyCu_2$ 273
Yoshida, H., S. Abe, T. Kaneko and K. Kamigaki
Pressure effect on the Néel temperature of GdCu, GdAg, TbCu and TbAg 275
Kaneko, T., H. Yoshida, M. Ohashi and S. Abe
Magnetic structure of the intermetallic compound DyAg 277
Iwata, N., T. Kimura, T. Shigeoka and Y. Hashimoto
Sublattice magnetization and magnetization process in $TbCu_2$ 279

Shinohara, T., A. Furusawa, S. Hayashibe, M. Kanazawa and M. Sato
Hyperfine field at impurity ^{156}Gd nuclei in TbT_2 and TbT_3 compounds (T = Fe and Co) 282
Kalvius, G.M., L. Asch, D.R. Noakes, R. Keitel, J.H. Brewer, E.J. Ansaldo, F.J. Litterst, B. Boucher, J. Chappert, A. Yaouanc, T. Yamazaki, K. Nagamine, K. Nishiyama, O. Hartmann and R. Wäppling
Magnetic properties of crystalline and amorphous DyAg from μSR measurements 285
Ballou, R., D. Gignoux, R. Lemaire and J. Schweizer
Co quasi-unidimensional staking versus magnetism in the $RCo_{1-\epsilon}$ intermetallics (R = La, Pr, Nd) (Abstract) 288
Abe, S., T. Kaneko, H. Yamauchi, H. Yoshida, H. Nakazawa and K. Kamigaki
Magnetic properties of $TbCu_4Pd$ and $TbCu_4Pt$ 289
Hashimoto, Y., H. Fujii, T. Okamoto and Y. Makihara
Magnetic characteristic of a single crystal $TbNi_3$ compound 291
Kasamatsu, Y., T. Tohyama, K. Kojima and T. Hihara
Pressure dependences of hyperfine fields in ferromagnetic compounds GdX (X = Zn, Cd and Hg) 294
Takeda, K., H. Deguchi and T. Kohara
Magnetic interactions in $Nd_{1-x}La_xRh_3B_2$ 297
Okamoto, N., H. Nagai, H. Yoshie, A. Tsujimura and T. Hihara
The coexistence of ferromagnetic and antiferromagnetic interactions in the $GdMn_{12}$ compound 299
Fujiwara, H., W.-L. Liu, H. Kadomatsu and T. Tokunaga
Spin reorientation in the ternary compound $GdFe_4Al_8$ single crystal 301
Yoshie, H., K. Ogino, H. Nagai, A. Tsujimura and Y. Nakamura
Nuclear magnetic resonance study of RCo_5 R = Y, Ce, Pr, Nd, Sm, Gd, Tb, Dy and Ho 303
Ballou, R., J. Deportes and J. Lemaire
Anisotropic rare earth–cobalt exchange interactions in RCo_5 intermetallics 306
Kąkol, Z. and H. Figiel
The magnetocrystalline anisotropy in $(Y_{1-x}Gd_x)_2Co_{17}$ pseudobinaries 309
Luo, S., G. Zhang, Z.H. Liu, Z. Pei, W. Jiang and W.W. Ho
Crystal structure and magnetic properties of $Sm_3Fe_{29}C_x$ intermetallic compounds 311
Radwanski, R.J., J.J.M. Franse and S. Sinnema
Effective anisotropy constants in rare earth–3d intermetallics 313
Sagawa, M., S. Hirosawa, T. Otani, H. Miyajima and S. Chikazumi
Temperature dependence of the coercivity of sintered $R_{17}Fe_{83-x}B_x$ magnets (R = Pr and Nd) 316
Ono, F., Y. Ohtsu and O. Yamada
Precision determination of magnetocrystalline anisotropy constants in $R_2Fe_{14}B$ intermetallic compounds 319
Yamada, O., Y. Ohtsu, F. Ono, M. Sagawa and S. Hirosawa
Magnetocrystalline anisotropy in $Nd_2Fe_{14}B$ intermetallic compound 322
Miyajima, H., N. Inaba, Y. Otani and S. Chikazumi
Determination of the magnetization vector in the intermetallic compound $Nd_2Fe_{14}B$ single crystal 325
Yamada, M., H. Kato, H. Hiroyoshi, H. Yamamoto and Y. Nakagawa
Crystal field theory of magnetism in $R_2Fe_{14}B$ 328
Fujii, H., H. Nagata, Y. Uwatoko, T. Okamoto, H. Yamamoto and M. Sagawa
Heat capacity and thermal expansion of $R_2Fe_{14}B$ compounds (R = Y, Nd and Tm) 331
Nagata, H., S. Hirosawa, M. Sagawa, A. Ishibashi and S. Endo
Pressure dependence of the Curie temperature of intermetallic compounds $R_2Fe_{14}B$ (R = Y, Ce and Nd) 334
Hiroyoshi, H., M. Yamada, N. Saito, H. Kato, Y. Nakagawa, S. Hirosawa and M. Sagawa
High-field magnetization and crystalline field of $R_2Fe_{14}B$ and $R_2Co_{14}B$ 337
Yamauchi, H., H. Yamamoto, H. Hirosawa and M. Sagawa
Magnetic properties of $R_2Co_{14}B$ compounds (R = La, Nd, Gd) 340
Burzo, E., N. Plugaru and V. Pop
Magnetic properties of $R_2(Fe, Co, Al)_{14}B$ compounds where R = Pr and Nd 343
Burzo, E. and M. Ursu
Magnetic properties of $(Gd_xY_{1-x})Co_4B$ compounds 345

Chapter 7. Actinide and Ce compounds

Smith, J.L., S.E. Brown, B.R. Cooper, Z. Fisk, A.L. Giorgi, J.D. Thompson and J.O. Willis
Magnetism of actinide compounds (Invited paper) 347
Franse, J.J.M., A.A. Menovsky, A. de Visser, P.H. Frings and C. Vettier
Electronic and magnetic properties of uranium–platinum intermetallic compounds (Invited paper) 351
Kalvius, G.M., J. Gal, F.J. Litterst, W. Potzel, J. Moser, U. Potzel, W. Schiessl, S. Fredo, S. Tapuchi and J.C. Spirlet
Mössbauer studies of neptunium intermetallics with heavy electron properties (Invited paper) 359
Marabelli, F. and P. Wachter
Electronic structure and magnetic properties of heavy fermions (Invited paper) 364
Fujiwara, H., M. Kurisu and H. Kadomatsu
Hydrostatic pressure study on magnetic and structural phase properties of CeAg up to 37 kbar 369
Sato, N., M. Kontani, H. Abe and K. Adachi
Magnetic properties of the 'normal' cerium compound Ce_2Zn_{17} 372
Sakakibara, T., T. Goto, Y. Ōnuki and T. Komatsubara

High field magnetization of the Kondo lattice compound $CeCu_6$ 375
Kontani, M., M. Senda, M. Nakano, J. Lawrence and K. Adachi
Magnetic properties of Ce_5Si_3 378
Sakurai, J., J. Schweizer, A. Stunault and T. Shinjo
^{119}Sn Mössbauer studies on $Ce(Sn_{1-x}In_x)_3$, Ce_2Sn_5 and Ce_3Sn_7 381
Sakurai, J., H. Kamimura, T. Ohyama, Y. Komura, D. Gignoux and R. Lemaire
Thermopower of $CeNi_5$ and CeNi single crystals 383
Isikawa, Y., K. Mori, T. Mizushima, A. Fujii, H. Takeda and K. Sato
Correlation between the specific heat and high field magnetism of $La_{1-x}Ce_xNi$ at low temperatures 385
Gignoux, D., C. Vettier and J. Voiron
First order magnetic transition induced by pressure in CeNi 388
Isobe, A., A. Ochiai, S. Onodera, K. Yamada, M. Kohgi, Y. Endoh, T. Suzuki and T. Kasuya
Magnetic and transport properties of Ce_2Sb and Ce_2Bi 391
Kohgi, M., F. Hippert, L.P. Regnault, J. Rossat-Mignod, B. Hennion, T. Satoh, F.L. Chui, T. Miura and F. Takei
Magnetic excitations of a ferromagnetic dense Kondo system $CeSi_{1.8}$ (Abstract) 393
Jo, T. and A. Kotani
Multiplet structure of core photoabsorption spectra in mixed valent Ce compounds 394
Kwon, Y.S., A. Ochiai, H. Kitazawa, N. Sato, H. Abe, T. Nanba, M. Ikezawa, K. Takegahara, O. Sakai, T. Suzuki and T. Kasuya
Kondo states of Yb_4Sb_3 and Yb_4As_3 397
Matsui, H., S. Suzuki and M. Tamaki
Effect of neutron irradiation on magnetic properties of β-U_2N_3 400
Kadowaki, K., J.J.M. Franse and S.B. Woods
Electrical resistivity of the heavy-fermion compounds (U, Th)Pt_3 403
Yagasaki, K., K.A. Gschneidner, Jr., R.N. Shelton, A.J. Bevolo and L.E. DeLong
Magnetic susceptibility of U_6M (M = Fe, Co and Ni) 405

Chapter 8. 3d metals and alloys

Kaburagi, M. and T. Tonegawa
Magnetic phase diagram of ordered $Fe(Pd_xPt_{1-x})_3$ alloys 408
Sato, T., T. Nemoto, E. Ohta, M. Sakata, T. Sakakibara and T. Goto
Reentrant spin glass properties of $Cr_{1-x-y}Mn_x$-Fe_yGe 411
Nakagawa, Y., Y. Yamaguchi and T. Hori
Coexistence of ferro- and antiferromagnetism in β_1-MnZn alloys 413
Gavigan, J.P., D. Givord, H.S. Li, O. Yamada, H. Maruyama, M. Sagawa and S. Hirosawa
High field magnetization measurements on $Tb_2Fe_{14}B$ and $Er_2Fe_{14}B$ single crystals 416
Gonser, U., H.-J. Bauer and H.-G. Wagner
Amorphous and microcrystalline structures obtained from fast quenching of FeNiB melts 419
Shirakawa, K., T. Kanomata and T. Kaneko
Effect of hydrostatic pressure on the Curie temperature of the Heusler alloys Au_2MnAl and Pd_2MnZ (Z = Sn and Sb) 421
Huck, B., V. Burgdorf and J. Hesse
^{57}Fe Mössbauer effect investigation on a $(Fe_{0.65}Ni_{0.35})_{1-x}Cu_x$ alloys system 423
Huck, B. and J. Hesse
Search for reentrant spin glass phenomenon in the 'classic' FeNi-Invar 425
Acet, M., W. Stamm, E.F. Wassermann and H. Zähres
Magnetovolume effects in $Fe_{80-x}Ni_xCr_{20}$ alloys (Abstract) 427
Komura, S., T. Takeda, B. Sarkissian and A. Chamberod
Spin fluctuation in an $Fe_{65}Ni_{35}$ Invar alloy 428
Takeda, T., S. Komura, T. Miyazaki, Y. Endoh and S. Itoh
Small-angle scattering of polarized neutrons from an $Fe_{65}{}^{62}Ni_{35}$ Invar alloy 431
Wassermann, E.F., H. Zähres, M. Acet and W. Stamm
Thermal expansion of $Fe_{50}Ni_xMn_{50-x}$ (Abstract) 434
Carbone, C., E. Kisker, K.-H. Walker and E.F. Wassermann
Spin- and angle-dependent photoemission from Fe_3Pt Invar (Abstract) 435
Stadnik, Z.M., P. Griesbach, G. Dehe, P. Gütlich and F. Maniawski
Nickel contribution to the magnetism of the Ni–Fe–V alloy 436
Stadnik, Z.M., P. Griesbach, G. Dehe, P. Gütlich, T. Kohara and G. Stroink
Surface hyperfine magnetic field in nickel 439
Fujita, M. and K. Machida
Spin density waves in Cr and Cr-rich Cr–Mn and Cr–V alloys 442

Lonzarich, G.G.
Quasiparticles and magnetic fluctuations in metals with large magnetic susceptibilities (Invited paper, postdeadline paper for chapter 1) 445

Author index to volume 70 451
Subject index to volume 70 460